

TDMS No. 20304 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/24/2008

Time Report Requested: 13:39:56

First Dose M/F: NA / 03/26/04

Lab: BAT

31 Wk_SSAC_R8

C Number: C20304

Lock Date: 10/12/2006

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25017 SSAC

Removal Date Range: 27-Oct-2004 - 27-Oct-2004

Treatment Groups: Include 001 0 UG/KG

Include 002 10 UG/KG

Include 003 30 UG/KG

Include 004 100 UG/KG

Include 005 220 UG/KG

Include 006 460 UG/KG

Include 007 1000 UG/KG

Include 008 4600 UG/KG

Study Gender: Female

TDMSE Version: 2.0.0

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
<hr/>										
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	6	6	6	6	6	7	7	7	7	7
0 UG/KG	1	2	3	4	5	1	2	3	4	5
										* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10	
Clear Cell Focus	X				X							2
Inflammation	1	1	1	1	1	1	1	1	1	1		10 1.0
Bile Duct, Fibrosis										1		1 1.0
<hr/>												
Pancreas	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Chronic Active				1								1 1.0
<hr/>												
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10	
<hr/>												
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10	

CARDIOVASCULAR SYSTEM

Blood Vessel												1
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ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia					1							1 1.0
Hypertrophy		1							1			2 1.0
<hr/>												
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10	

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 BLANK .. Not examined microscopically
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 1) Minimal 3) Moderate
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		2	2	2	2	2	2	2	2	2	2
		1	1	1	1	1	1	1	1	1	1
		6	6	6	6	6	6	6	6	6	6
SPRAGUE-DAWLEY RATS		0	0	0	0	0	0	0	0	0	0
FEMALE		0	0	0	0	0	0	0	0	0	0
0 UG/KG		0	0	0	0	0	0	0	0	0	0
ANIMAL ID		6	6	6	6	6	7	7	7	7	7
		1	2	3	4	5	1	2	3	4	5
* TOTALS											

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	10
Follicular Cell, Hypertrophy	2											1 2.0

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Ovary	+	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	+	10
Inflammation				2								1 2.0
Metaplasia, Squamous	1		1				1	1				4 1.0
Endometrium, Hyperplasia, Cystic				1								1 1.0
Vagina	+	+	+	+	+	+	+	+	+	+	+	10

HEMATOPOIETIC SYSTEM

Spleen	+	+	+	+	+	+	+	+	+	+	+	10
Pigmentation	1	1	1	1	1	1	1	1	2	1		10 1.1

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		2	2	2	2	2	2	2	2	2	2	
		1	1	1	1	1	1	1	1	1	1	
		6	6	6	6	6	6	6	6	6	6	
SPRAGUE-DAWLEY RATS		0	0	0	0	0	0	0	0	0	0	
FEMALE		0	0	0	0	0	0	0	0	0	0	
0 UG/KG		0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		6	6	6	6	6	7	7	7	7	7	
		1	2	3	4	5	1	2	3	4	5	* TOTALS
Thymus		+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM												
Mammary Gland		+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM												
NONE												
NERVOUS SYSTEM												
NONE												
RESPIRATORY SYSTEM												
Lung		+	+	+	+	+	+	+	+	+	+	10
Inflammation								1				1 1.0
Alveolus, Infiltration Cellular, Histiocyte					1	1	1				1	4 1.0
SPECIAL SENSES SYSTEM												
NONE												
URINARY SYSTEM												
NONE												

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	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
.....										
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
ANIMAL ID	1	1	1	1	1	2	2	2	2	3
10 UG/KG	1	2	3	4	5	6	7	8	9	0
										* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10
Clear Cell Focus							X	X	X		3
Inflammation	1	1	1	1	1	1	1	1	1	1	10 1.0
.....											
Pancreas	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

.....

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	1	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	6	
<hr/>												
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	
ANIMAL ID	1	1	1	1	1	2	2	2	2	3	3	
10 UG/KG	1	2	3	4	5	6	7	8	9	0	0	* TOTALS
<hr/>												
Uterus	+	+	+	+	+	+	+	+	+	+	+	10
Dilatation		3							4			2 3.5
Inflammation, Suppurative		1										1 1.0
Metaplasia, Squamous	1				1	1						3 1.0
<hr/>												
HEMATOPOIETIC SYSTEM												
<hr/>												
Thymus	+	+	+	+	+	+	+	+	+	+	+	10
Atrophy							2					1 2.0
<hr/>												
INTEGUMENTARY SYSTEM												
NONE												
<hr/>												
MUSCULOSKELETAL SYSTEM												
NONE												
<hr/>												
NERVOUS SYSTEM												
NONE												
<hr/>												
RESPIRATORY SYSTEM												
<hr/>												
Lung	+	+	+	+	+	+	+	+	+	+	+	10
Alveolus, Infiltration Cellular, Histiocyte								1				1 1.0
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SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
ANIMAL ID	1	1	1	1	1	2	2	2	2	3
10 UG/KG	1	2	3	4	5	6	7	8	9	0
										* TOTALS

SPECIAL SENSES SYSTEM
 NONE

URINARY SYSTEM
 NONE

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	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
.....										
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	1	1	1	1	2
30 UG/KG	1	2	3	4	5	6	7	8	9	0
										* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10	
Clear Cell Focus	X	X				X		X				4
Inflammation	1	1	1	1	1	1	1	1	1	1		10 1.0
Mixed Cell Focus				X								1
Hepatocyte, Hypertrophy						1						1 1.0
.....												
Pancreas	+	+	+	+	+	+	+	+	+	+	10	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10	
Hypertrophy		1										1 1.0
.....												
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10	
.....												
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	

GENERAL BODY SYSTEM

NONE

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	2	2	2	2	2	2	2	2	2	2
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	6	6	6	6	6	6	6	6	6	6
.....										
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	1	1	1	1	2
30 UG/KG	1	2	3	4	5	6	7	8	9	0
										* TOTALS

GENITAL SYSTEM

Uterus	+	+	+	+	+	+	+	+	+	+	10
Metaplasia, Squamous	1									1	2 1.0
Endometrium, Hyperplasia, Cystic				1						1	2 1.0

HEMATOPOIETIC SYSTEM

Thymus	+	+	+	+	+	+	+	+	+	+	10
Atrophy			2								1 2.0

INTEGUMENTARY SYSTEM

Mammary Gland							+				1
---------------	--	--	--	--	--	--	---	--	--	--	---

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	----

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0
DAY ON TEST		2	2	2	2	2	2	2	2	2	2
DAY ON TEST		1	1	1	1	1	1	1	1	1	1
DAY ON TEST		6	6	6	6	6	6	6	6	6	6
.....											
SPRAGUE-DAWLEY RATS		0	0	0	0	0	0	0	0	0	0
FEMALE		0	0	0	0	0	0	0	0	0	0
30 UG/KG		2	2	2	2	2	2	2	2	2	2
ANIMAL ID		0	0	0	0	0	1	1	1	1	2
ANIMAL ID		1	2	3	4	5	6	7	8	9	0
											* TOTALS
Inflammation		1									1 1.0

SPECIAL SENSES SYSTEM
 NONE

URINARY SYSTEM
 NONE

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	6	6	6	6	6	6	6	6	6	6
.....										
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	6	6	6	6	6	7	7	7	7	8
100 UG/KG	1	2	3	4	5	6	7	8	9	0
										* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10	
Inflammation	1	1	1	1	1	1	1	1	1	1		10 1.0
Hepatocyte, Hypertrophy			1									1 1.0
.....												
Pancreas	+	+	+	+	+	+	+	+	+	+	10	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia			1									1 1.0
Hypertrophy				1								1 1.0
.....												
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10	
.....												
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	

GENERAL BODY SYSTEM

NONE

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	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
<hr/>										
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	6	6	6	6	6	7	7	7	7	8
100 UG/KG	1	2	3	4	5	6	7	8	9	0
										* TOTALS

GENITAL SYSTEM

Uterus	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Suppurative										1		1 1.0
Metaplasia, Squamous					1					1	1	3 1.0

HEMATOPOIETIC SYSTEM

Thymus	+	+	+	+	+	+	+	+	+	+	10	
Atrophy										1		1 1.0

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10	
Inflammation					1					1		2 1.0

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	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
.....										
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	6	6	6	6	6	7	7	7	7	8
100 UG/KG	1	2	3	4	5	6	7	8	9	0
										* TOTALS

Alveolar Epithelium, Infiltration Cellular,
 Histiocyte

1

1 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
<hr/>										
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	4	4	4	4	4	4	4	4	4	4
220 UG/KG	0	0	0	0	0	2	2	2	2	3
	1	2	3	4	5	6	7	8	9	0
										* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10	
Clear Cell Focus				X		X						2
Inflammation	1	1	1	2	1	1	1	1	1	1	10	1.1
Hepatocyte, Hypertrophy		1			1		1				3	1.0
<hr/>												
Pancreas	+	+	+	+	+	+	+	+	+	+	10	
<hr/>												
Stomach, Glandular					+						1	
Hyperplasia					2						1	2.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10	
Hypertrophy				1				1		2		3 1.3
<hr/>												
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10	
<hr/>												
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	

GENERAL BODY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
.....										
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	4	4	4	4	4	4	4	4	4	4
220 UG/KG	0	0	0	0	0	2	2	2	2	3
	1	2	3	4	5	6	7	8	9	0
										* TOTALS

NONE

GENITAL SYSTEM

Uterus	+	+	+	+	+	+	+	+	+	+	10	
Dilatation												3
Inflammation, Suppurative												1
Metaplasia, Squamous	1											1
Endometrium, Hyperplasia, Cystic					1							1

HEMATOPOIETIC SYSTEM

Thymus	+	+	+	+	+	+	+	+	+	+	10	
Atrophy		1			2	1						3

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 15

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0
DAY ON TEST		2	2	2	2	2	2	2	2	2	2
DAY ON TEST		1	1	1	1	1	1	1	1	1	1
DAY ON TEST		6	6	6	6	6	6	6	6	6	6
SPRAGUE-DAWLEY RATS		0	0	0	0	0	0	0	0	0	0
FEMALE		0	0	0	0	0	0	0	0	0	0
ANIMAL ID		4	4	4	4	4	4	4	4	4	4
220 UG/KG		0	0	0	0	0	2	2	2	2	3
ANIMAL ID		1	2	3	4	5	6	7	8	9	0
* TOTALS											

RESPIRATORY SYSTEM

Lung + + + + + + + + + + 10

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 16

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	
.....											
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	5	5	5	5	5	5	5	5	5	5	
	4	4	4	4	5	7	7	7	7	7	
460 UG/KG	6	7	8	9	0	1	2	3	4	5	* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10	
Clear Cell Focus								X				1
Clear Cell Focus, Multiple						X						1
Inflammation	1	1	1	1	1		1	1	1	1		9 1.0
Mixed Cell Focus			X									1
Pigmentation	1											1 1.0
Hepatocyte, Hypertrophy	1	2	1	1	1	1	1					8 1.1
.....												
Pancreas	+	+	+	+	+	+	+	+	+	+	10	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10	
Pituitary Gland			+								1	
Pars Distalis, Cyst			3									1 3.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
C-cell, Hyperplasia								3				1 3.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	
.....											
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	5	5	5	5	5	5	5	5	5	5	
	4	4	4	4	5	7	7	7	7	7	
460 UG/KG	6	7	8	9	0	1	2	3	4	5	* TOTALS

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Uterus	+	+	+	+	+	+	+	+	+	+	10
Dilatation				3	4						2 3.5
Inflammation, Suppurative				1	2						2 1.5
Metaplasia, Squamous						1			1		2 1.0

HEMATOPOIETIC SYSTEM

Thymus	+	+	+	+	+	+	+	+	+	+	10
Atrophy	1								1		2 1.0

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Page 18

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	
.....											
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	5	5	5	5	5	5	5	5	5	5	
	4	4	4	4	5	7	7	7	7	7	
460 UG/KG	6	7	8	9	0	1	2	3	4	5	* TOTALS

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation			1					1			2 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 19

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
<hr/>										
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	6
ANIMAL ID	2	2	2	2	2	3	3	3	3	3
1000 UG/KG	1	2	3	4	5	1	2	3	4	5
	* TOTALS									

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10	
Clear Cell Focus			X	X		X						3
Hematopoietic Cell Proliferation										1		1 1.0
Inflammation	2	3	1	2	1	1	1	1	2	1		10 1.5
Mixed Cell Focus				X								1
Necrosis									1			1 1.0
Pigmentation		1			1	1	1	1	1			6 1.0
Hepatocyte, Hypertrophy	1	2	1	1	2	1	1	2	2	1		10 1.4
Oval Cell, Hyperplasia							1					1 1.0
<hr/>												
Pancreas	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Chronic Active	2											1 2.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10	
Degeneration, Cystic						2						1 2.0
Hypertrophy	1						2		2			3 1.7
<hr/>												
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10	

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 20

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/24/2008

Time Report Requested: 13:39:56

First Dose M/F: NA / 03/26/04

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0		
	2	2	2	2	2	2	2	2	2	2		
	1	1	1	1	1	1	1	1	1	1		
	6	6	6	6	6	6	6	6	6	6		
<hr/>												
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0		
FEMALE	0	0	0	0	0	0	0	0	0	0		
	6	6	6	6	6	6	6	6	6	6		
ANIMAL ID	2	2	2	2	2	3	3	3	3	3		
1000 UG/KG	1	2	3	4	5	1	2	3	4	5		
												* TOTALS
Thyroid Gland	+	+	+	+	+	+	+	+	+	+		10
C-cell, Hyperplasia												1 1.0
Follicular Cell, Hypertrophy				2					2			2 2.0

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Uterus	+	+	+	+	+	+	+	+	+	+		10
Dilatation			2	3					3			3 2.7
Inflammation, Suppurative									1			1 1.0
Metaplasia, Squamous			1				1		1	1		4 1.0

HEMATOPOIETIC SYSTEM

Thymus	+	+	+	+	+	+	+	+	+	+		10
Atrophy							1					1 1.0

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 21

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
.....										
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	6
ANIMAL ID	2	2	2	2	2	3	3	3	3	3
1000 UG/KG	1	2	3	4	5	1	2	3	4	5
	* TOTALS									

NERVOUS SYSTEM
 NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Alveolar Epithelium, Hyperplasia							1				1 1.0
Alveolus, Infiltration Cellular, Histiocyte		1									1 1.0

SPECIAL SENSES SYSTEM
 NONE

URINARY SYSTEM
 NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 22

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	
.....											
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	7	7	7	7	7	7	7	7	7	7	
4600 UG/KG	3	3	3	3	4	6	6	6	6	6	
	6	7	8	9	0	1	2	3	4	5	* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10	
Cholangiofibrosis						2						1 2.0
Fatty Change, Diffuse	3	3	3	3	2	3	3	2	3	3		10 2.8
Inflammation	2	2	3	2	2	2	2	2	2	2		10 2.1
Mixed Cell Focus					X							1
Pigmentation	1	1	2	2	2	2	2	1	1	2		10 1.6
Toxic Hepatopathy	1	1	1	1	1	1	1	1	1	1		10 1.0
Bile Duct, Hyperplasia					1			1				2 1.0
Hepatocyte, Hypertrophy	3	3	3	3	3	3	3	3	3	3		10 3.0
Hepatocyte, Multinucleated	1	1	1	1	1	1	2	1	1	1		10 1.1
Oval Cell, Hyperplasia	1	1		1	1	1	2	1	1	1		9 1.1
.....												
Pancreas	+	+	+	+	+	+	+	+	+	+	10	
Acinus, Atrophy, Focal										1		1 1.0
Acinus, Vacuolization Cytoplasmic	2	1	1		1		1		1			6 1.2
.....												
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10	
Edema	1											1 1.0
Inflammation	1				2							2 1.5
.....												
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10	

CARDIOVASCULAR SYSTEM

Blood Vessel	+										1	
--------------	---	--	--	--	--	--	--	--	--	--	---	--

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	
.....											
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	
ANIMAL ID	3	3	3	3	4	6	6	6	6	6	
4600 UG/KG	6	7	8	9	0	1	2	3	4	5	* TOTALS

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10	
Atrophy							2					1 2.0
Degeneration, Cystic					1							1 1.0
Hypertrophy					2			1				2 1.5
.....												
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10	
.....												
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10	
.....												
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
Follicular Cell, Hypertrophy	3		1	2	2	1	1	3		1		8 1.8

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Ovary	+	+	+	+	+	+	+	+	+	+	10	
.....												
Uterus	+	+	+	+	+	+	+	+	+	+	10	
Dilatation							4					1 4.0

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 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/24/2008
 Time Report Requested: 13:39:56
 First Dose M/F: NA / 03/26/04
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	
	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	
.....											
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	
ANIMAL ID	3	3	3	3	4	6	6	6	6	6	
4600 UG/KG	6	7	8	9	0	1	2	3	4	5	* TOTALS

Vagina + + + + + + + + + + **10**

HEMATOPOIETIC SYSTEM

Spleen	+	+	+	+	+	+	+	+	+	+	10
Pigmentation	1	1	1	1	1	2	2	1	1	1	10 1.2
Thymus	+	+	+	+	+	+	+	+	+	+	10
Atrophy	2						2				2 2.0

INTEGUMENTARY SYSTEM

Mammary Gland + + + + + + + + + + **10**

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Hemorrhage		1	1								2 1.0
Alveolus, Infiltration Cellular, Histiocyte	1				1			1			3 1.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

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	2	2	2	2	2	2	2	2	2	2
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6

**SPRAGUE-DAWLEY RATS
 FEMALE**

4600 UG/KG

ANIMAL ID

0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
7	7	7	7	7	7	7	7	7	7	7
3	3	3	3	4	6	6	6	6	6	6
6	7	8	9	0	1	2	3	4	5	

*** TOTALS**

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

*** END OF REPORT ***

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x .. Lesion present

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